



YSI 700 IQ IFL Sensor

Interface/Sludge Level Measurement for the IQ SensorNet 2020 XT System

The IFL is an ultrasonic, interface level measurement sensor for the IQ SensorNet system. During the wastewater treatment process, the measurement of the interface level between liquids is of vital importance for optimal performance and trouble-free operation. The 700 IQ IFL provides continuous data to help operational efficiency improvement decisions. Simply connect it to the 2020 XT IQ SensorNet system.

Parameters:

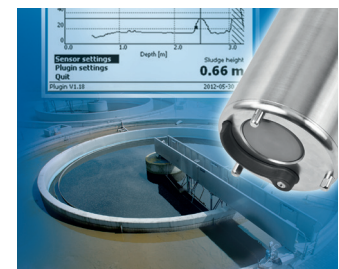
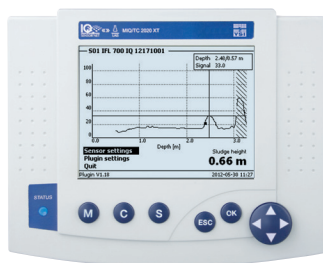
Interface sludge level

Applications:

Wastewater treatment (municipal and industrial);
primary and secondary clarifiers and gravity thickeners

Water Treatment pre-sedimentation clarifiers and
flocculator clarifiers

- Intelligent signal processing - filters out undesired signals caused by floating sludge, internal fittings, or moving skimmers
- Simple system configuration with the IQ SensorNet
- Detailed display of echo profile (density of reflecting particles) for graphical visualization
- Maintenance free non-contact cleaning system
- 2-year sensor warranty
- Advanced settings for demanding application



IFL 700 IQ Technical Specifications

Measurement Method	Ultrasound echo measurement (ultrasonic)
Measurement Range	0.4 to 15 m (1.32 to 49.21 ft)
Resolution	0.01 m (0.03 ft)
Accuracy	0.1 m (0.3 ft)
Signal Filters	Yes
Flow Speed	Max. 4 m/s (~13 ft/s)
Cleaning System	Automatic, non-contact wiper (optional)
SensCheck	Alarm; humidity sensor
Dimensions	Length 442 mm (17.4 in); max. diameter 105 mm (4.13 in)
Weight	Approx. 3.6 kg (~8 lbs)
Immersion Depth	Min. 5 cm (1.97 in); max. 3 m (9.8 ft)
Protection Class	Sensor with SACIQ cable connected: IP68; 0.3 bar (4.3 psi)
Pressure Resistance	The sensor with connected SACIQ cable complies with the requirements of article 3(3), 97/23/EU guideline. 0.3 bar (4.3 psi)
pH range	4 to 12 units
Operating Temperature	0 to 50 °C (31 to 122 °F)
Storage Temperature	-5 to 50 °C (23 to 122 °F)
Materials	Shaft and baseplate: stainless steel 1.4571 Plug head and transition unit: POM Ultrasound unit: PVC-C Cleaning system: Grade 2 Titanium (shaft) and Grivory
Equipment Safety, Standards	EN 61010-1; UL 61010-1; CAN/CSA C22.2#61010-1
Electrical	Nominal voltage 24 VDC, provided by the IQ SensorNet system
Power Consumption	2.8 W
Certifications	CE, cETL, ETL
System Compatibility	YSI IQ SensorNet system 2020 XT

IFL 700 IQ Digital Sensor Ordering Information (must be used with the YSI IQ SensorNet 2020 XT)

IFL 700 IQ Item #481 200Y	Digital ultrasound interface level sensor with automatic cleaning system
IFL 700 IQ Item #481 201Y	Digital ultrasound interface level sensor
IFL-D Item #481 205Y	Sensor mount with deflector for IFL 700 IQ for use with moving surface skimmers
IFL-RM Item #481 207Y	Rail mounting for IFL 700 IQ (works with IFL-D)

Visit YSI.com/IQ for additional information on the entire IQ SensorNet system.

YSI

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